

Majority of produced plastic bottles does not get recycled, plastic bottles clog waterways and pollute our surroundings, they are washed into the sea, photocompose as "plankton" becoming part of our food chain -yes, plastic ends up even on our plates.

Andreas Froese Environmental Consultant

¿What we have already built from plastic bottles?

Walls
Houses
Roofs
Bathrooms/toilets
Water storage tanks
Aqueduct
Bus stops
Eco-parks
Composting facilities



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What is achieved?

- eco construction with traditional housing properties
- lowering cost by up to 40%
- elimination of residential waste
- job creation for disadvantaged citizens Education: learning by doing empowerment and engagement of local communities
- elevating environmental awareness
Rise quality of life



Solutions addresses the problem of plastic waste by upcycling waste into housing.

A free brick in 2 minutes

¿HOW?

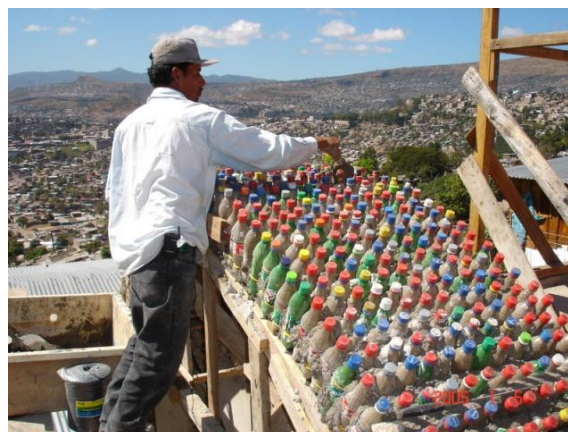
ECO-TEC technique consists of using disposable plastic PET bottles to replace bricks. It also incorporates other materials such as rubble and soil. ECO-TEC upcycles other waste by feeding bottles with plastic bags, debris, dirt and construction waste.

By applying a unique and simple technique, which avoids the use of concrete or traditional bricks, ECO-TEC lowers the traditional construction costs by up to 40% and reduces environmental footprint, originating from construction, to minimum.



In the past 11 years ECO-TEC has developed numerous constructions projects in eight countries across **Latin America, Africa** and **Asia**.

German environmentalist Andreas Froese is the inventor of the ECO-TEC technique, using disposable PET bottles, debris and dirt as a raw material for construction.



Being an expert in green building and eco-design, Andreas Froese serves as an international consultant traveling to around the world and multiplying his knowledge and experience in innovative use of household solid waste, composting and vermiculture.

Different national and international organizations have participated in these projects, amongst them: World Bank, Trocaire, Rotary International and Apso.



Some of the organizations with whom ECO-TEC cooperated with:

- Zamorano Honduras Ecoparque Trocaire (Irish Catholic Agency for Development)
- Ministry of Tourism of Honduras with funds from the IDB (Inter-American Development Bank)
- Government of Honduras
- Family Allowance Program PREF-the Presidency of the Republic. CVC
- Colombia (Regional Autonomous Corporation of the Cauca Valley and Southwest)



¿What we do?

- Presentations on economic sustainable construction from waste.
- Workshops focusing on eco-design, composting and ECO-TEC techniques: how to use a PET bottle in construction.
- Integral eco-design and sustainable construction consultancy leaving a finished construction in place.
- Consultancy directed at household solid waste.

¿Who is this project for?

NGOs
Governments
Individuals interested in eco-construction



*price doesn't include
 -expenses: return flight ticket, local transport, accommodation and full board for the trainer that will be at an expense of the hosting institution
 -building material: plastic bottles, soil, sand, cement, grit, iron and construction tools need to be provided by the hosting institution

Training period	Construction Tanque/ Housing	
	Specifications	Cost per training*
1 week	300-500 litres	2000 Euro
2 weeks	1.000-2.000 litres	3000 Euro
3 weeks	2.000-5.000 litres	4500 Euro
4 weeks	5.000-10.000 litres	6000 Euro
1 day	ECO-TEC building techniques	650 Euros

ECO – TEC tackles three poverty, insufficient housing and waste pollution bringing in an environmental, economic and social aspects of communities.